ORIGINATION FORM Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

<u>Date</u> :	Specification Section:		
Originator:	Articles/Subarticles:		
<u>Telephone</u> :			
email:			
Will the proposed revision involve Design Standard Inc	dex changes?	Yes	No
Roadway Design staff contacted (name):			
Will the proposed revision involve PPM changes?	Yes	No	
Roadway Design staff contacted (name):			
Will the proposed revision involve CPAM changes?	Yes	No	
Construction staff contacted (name):			
Will the proposed revision involve Pay Item changes?	Yes	No	
Estimates staff contacted (name):			
Will the proposed revision involve SDG changes?	Yes	No	
Structures staff contacted (name):			
Will the proposed revision involve APL changes?	Yes	No	
Product Evaluation staff contacted (name):			
Will this revision necessitate any of the following:			
Design Bulletin Construction Bulletin	<u>Estin</u>	nates Bulletin	
Are all references to external publications current?	Yes	No	2
If not, what references need to be updated (please inc	lude changes	<u>in the redline)</u>	f
Why does the existing language need to be changed?			
Summary of the changes:			
Summary of the changes.			
Are these changes applicable to all Department jobs?	Voc.	No	
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If not, what are the restrictions?



Florida Department of Transportation

RICK SCOTT GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 JIM BOXOLD SECRETARY

MEMORANDUM

DATE: June 22, 2015

TO: Specification Review Distribution List

FROM: Daniel Scheer, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9700100 Materials for Raised Retroreflective**

Pavement Markers and Bituminous Adhesive.

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Chester Henson of the State Roadway Design Office to provide manufacturing criteria for Class D temporary markers. This change is associated with changes to 102, 710, and 990.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx. Comments received after July 21, 2015, may not be considered. Your input is encouraged.

DS/ft Attachment

MATERIALS FOR RAISED RETROREFLECTIVE PAVEMENT MARKERS AND BITUMINOUS ADHESIVE.

(REV 6-2-156-104-156-16-156-17-15)

ARTICLE 970-1 is deleted and the following substituted:

970-1 Raised Retror Reflective Pavement Markers (RPM).

All raised pavement markers shall be one of the products listed on the Department's Approved Product List (APL). Manufacturers seeking evaluation of their product must submit an application in accordance with Section 6 and include independent testing showing the product meets the requirements of this section and 990. The Department will test all raised pavement markers in accordance with FM 5-566.

970-1.1 Composition: The marker shall consist of materials conforming to ASTM D4280.

970-1.2 Physical Requirements: The physical size of the RPM shall conform to the requirements of ASTM D4280. Laboratory and field samples for RPMs and bituminous adhesives shall meet the requirements of ASTM D4280 and include the following requirements:

The minimum area of each retroreflective face for Class A and B RPMs shall be 2.5 square inches. The minimum base size for Class A and B RPMs shall be 12 square inches.

970-1.2.1 Designation of Marker Type, Color and Classification: The marker description shall be in order of type, color and retroreflective surface condition in accordance with ASTM D4280 and the following chart.

RPM Class			
Class	Description	Expected Normal Service	ASTM Surface Designation
A	Temporary marker	Up to six months	none
В	Permanent marker	Long life	H, hard abrasion resistant lens
D	Temporary , flexible – retroreflective tabs	One month	Monodirectional yellow marker Bidirectional yellow marker

-970-1.3-2 Performance Requirements.

–970-2.1 Class A and B Markers: The RPM shall meet the performance requirements specified in ASTM D4280, Section 6.2, for luminous intensity, flexural strength, compressive strength, resistance to cracking, and thermal cycling, as modified herein. Test method FM 5–566 will be used to evaluate marker performance.

970-12.31.1 Composition: The marker shall consist of materials conforming to ASTM D4280.

970-12.31.2 Physical Requirements: The physical size of the RPM shall conform to the requirements of ASTM D4280. Laboratory and field samples for RPMs and bituminous adhesives shall meet the requirements of ASTM D4280 and include the following requirements:

The minimum area of each retroreflective face shall be 2.5 square inches. The minimum base size shall be 12 square inches.

970-12.31.1-3 Class A Markers: Meet the coefficient of luminous intensity requirements of ASTM D4280. Abrasion treatment is not required for Class A Markers.

970-12.31.2-4 Class B (Abrasion Resistant) Markers: Meet the coefficient of luminous intensity requirements of ASTM D4280 after abrasion. Each marker shall be marked as abrasion resistant by the manufacturer.

970-12.31.3-5 In-service Service Minimum Retroreflective Intensity: The Class B retroreflective pavement marker shall retain a minimum coefficient of luminous intensity for 18 months of not less than 30% of the values shown in Table 1 of ASTM D4280, and a minimum luminous intensity of 0.2 cd/fc at the end of two years.

—970-1.53 Packaging and Labeling+.

Shipment shall be made in containers which are acceptable to common carriers and packaged in such a manner as to ensure delivery is in perfect condition. Each package shall be clearly marked as to the name of the manufacturer, type, color, quantity enclosed and date of manufacture. Show the designation of the marker in accordance with ASTM D4280. Show the product name as it appears on the APL.